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## In the Claims:

- 1. (Previously Presented) An electrochemical cell, which comprises:
  - a) an anode of an alkali metal;
  - b) a cathode of a composite cathode active material comprising a core of either  $\epsilon$ -phase silver vanadium oxide (SVO) or copper silver vanadium oxide (CSVO), and mixtures thereof as a first cathode active material provided with a coating selected from the group consisting of  $\beta$ -phase SVO,  $\gamma$ -phase SVO, MnO<sub>2</sub>, and mixtures thereof as a second cathode active material; and
  - c) an electrolyte activating the anode and the cathode.
- (Cancelled)
- (Cancelled)
- 4. (Previously Presented) The electrochemical cell of claim 1 wherein the anode is lithium.
- 5. (Original) The electrochemical cell of claim 1 wherein the composite cathode active material is contacted to a cathode current collector selected from the group consisting of stainless steel, titanium, tantalum, platinum, aluminum, gold, nickel, and alloys thereof.

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- 6. (Original) The electrochemical cell of claim 1 wherein the core of the first cathode active material is of particles having a size of from about 30  $\mu m$  to about 300  $\mu m$ .
- 7. (Original) The electrochemical cell of claim 1 wherein the coating of the second cathode active material is of a thickness of about 1  $\mu m$  to about 10  $\mu m$ .
- 8. (Currently Amended) The electrochemical cell of claim 1 in an electrochemical configuration selected from the group consisting of a case-negative design having the anode electrically connected to the casing and the cathode electrically connected to a terminal electrically insulated from the casing, a case positive design and a case neutral design.
- 9. (Original) The electrochemical cell of claim 1 wherein the electrolyte has a first solvent selected from the group consisting of tetrahydrofuran, methyl acetate, diglyme, trigylme, tetragylme, dimethyl carbonate, 1,2-dimethoxyethane, 1,2-diethoxyethane, 1-ethoxy,2-methoxyethane, ethyl methyl carbonate, methyl propyl carbonate, ethyl propyl carbonate, diethyl carbonate, dipropyl carbonate, and mixtures thereof, and a second solvent selected from the group consisting of propylene carbonate, ethylene carbonate, butylene carbonate, acetonitrile, dimethyl sulfoxide, dimethyl, formamide, dimethyl acetamide, γ-valerolactone, γ-butyrolactone, N-methyl-2-pyrrolidone, and mixtures thereof.

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- 10. (Original) The electrochemical cell of claim 1 wherein the electrolyte includes a lithium salt selected from the group consisting of LiPF<sub>6</sub>, LiBF<sub>4</sub>, LiAsF<sub>6</sub>, LiSbF<sub>6</sub>, LiClO<sub>4</sub>, LiO<sub>2</sub>, LiAlCl<sub>4</sub>, LiGaCl<sub>4</sub>, LiC(SO<sub>2</sub>CF<sub>3</sub>)<sub>3</sub>, LiN(SO<sub>2</sub>CF<sub>3</sub>)<sub>2</sub>, LiSCN, LiO<sub>3</sub>SCF<sub>3</sub>, LiC<sub>6</sub>F<sub>5</sub>SO<sub>3</sub>, LiO<sub>2</sub>CCF<sub>3</sub>, LiSO<sub>6</sub>F, LiB(C<sub>6</sub>H<sub>5</sub>)<sub>4</sub>, LiCF<sub>3</sub>SO<sub>3</sub>, and mixtures thereof.
- 11. (Previously Presented) An implantable medical device, which comprises:
  - a) a device housing;
  - b) control circuitry contained inside the device housing;
  - c) an electrochemical cell housed inside the device housing for powering the control circuitry, the cell comprising:
    - i) an anode comprising lithium;
    - a cathode of a composite cathode active material comprising a core of ε-phase silver vanadium oxide (SVO) having its individual particles provided with a coating of γ-phase SVO; and
  - d) a nonaqueous electrolyte activating the anode and the cathode; and
  - e) a lead connecting the device housing to a body part intended to be assisted by the medical device, wherein the electrochemical cell powers the control circuitry both during a device monitoring mode to monitor the physiology of the body part and a device activation mode to provide the therapy to the body part.
- 12. (Cancelled)
- 13. (Cancelled)

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- (Previously Presented) The implantable medical device of claim 11 wherein the anode is lithium.
- 15. (Original) The implantable medical device of claim 11 wherein the cathode active material is contacted to a cathode current collector selected from the group consisting of stainless steel, titanium, tantalum, platinum, aluminum, gold, nickel, and alloys thereof.
- 16. (Original) The implantable medical device of claim 11 wherein the core of the first cathode active material is of particles having a size of from about: 30 µm to about 300 µm and the coating of the second cathode active material is of a thickness of about 1 µm to about 10 µm.
- (Previously Presented) A method for providing a composite cathode active material, comprising the steps of:
  - providing a core cathode active material selected from the group consisting of  $\varepsilon$ -phase silver vanadium oxide (SVO), copper silver vanadium oxide (CSVO), and mixtures thereof is granular form;
  - b) providing a solution of an organic solvent having a coating metal selected from the group consisting of \( \beta phase SVO, γ-phase SVO, and mixtures thereof provided therein;
  - C) mixing the first core cathode active material into the sol-gel solution containing the second coating cathode active material to thereby form a gel of the second cathode active material coating the core cathode active material;

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- d) drying the resulting coated cathode active material to substantially remove the solvent material; and
- e) heating the dried coated core cathode active material to provide the composite cathode active material.

## 18. to 20. (Cancelled)

- 21. (Original) The method of claim 17 including providing the sol-gel solution as either an aqueous or a nonaqueous solution.
- 22. (Original) The method of claim 17 including mixing the coating metal with the active material in a range, by weight, of about 1:3 to about 1:20.
- 23. (Original) The method of claim 17 including drying the coated cathode active material at a reduced pressure in a range of about 20 inches of Hg. to about 50 inches of Hg.
- 24. (Original) The method of claim 17 including drying the coated cathode active material at a temperature in a range of about 200°C to about 500°C.
- 25. (Original) The method of claim 17 including drying the coated cathode active material for a time of about 10 minutes to about 6 hours.

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- 26. (Previously Presented) An electrochemical cell, which comprises:
  - a) an anode of lithium;
  - b) a cathode of a core of a composite cathode active material selected from the group consisting of  $\epsilon$ -phase silver vanadium oxide (SVO),  $\beta$ -phase SVO,  $\gamma$ -phase SVO, CSVO, V<sub>2</sub>O<sub>5</sub>, MnO<sub>2</sub>, LiCoO<sub>2</sub>, LiNiO<sub>2</sub>, LiMnO<sub>2</sub>, LiMn<sub>2</sub>O<sub>4</sub>, CuO<sub>2</sub>, TiS<sub>2</sub>, Cu<sub>2</sub>S, FeS, FeS<sub>2</sub>, Ag<sub>2</sub>O, Ag<sub>2</sub>O<sub>2</sub>, CuF, Ag<sub>2</sub>CrO<sub>4</sub>, copper vanadium oxide, and mixtures thereof having its individual particles provided with a coating selected from the group consisting of  $\gamma$ -phase SVO,  $\beta$ -phase SVO, MnO<sub>2</sub>, and mixtures thereof, wherein the core material and the coating material are not the same; and
  - c) an electrolyte activating the anode and the cathode.
- 27. (New) The electrochemical cell of claim 1 in a casepositive design having the cathode electrically connected to the
  casing and the anode electrically connected to a terminal
  electrically insulated from the casing.
- 28. (New) The electrochemical cell of claim 1 in a caseneutral design having the anode and cathode electrically connected to respective terminals electrically insulated from the casing.